

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method for generating a primitive extension, the primitive extension defining the connectivity and vertices used to specify a collection of connected primitives within a generalized primitive, comprising:

providing an originating primitive;

retrieving parameters associated with parameterizing the generalized primitive, the [[with]] parameters including that include a width (w), a step size (s) and an anchor width (a); and

generating the primitive extension of the originating primitive using responsive to the parameters.

Claim 2 (Currently Amended): A method as in claim 1, wherein one of the parameters indicates a number of the vertices of to form the originating primitive.

Claim 3 (Original): A method as in claim 1, wherein the generalized primitive is a fan-type primitive.

Claim 4 (Original): A method as in claim 1, wherein the generalized primitive is a strip-type primitive.

Claim 5 (Previously Presented): A method as in claim 1, wherein one of the parameters indicates a number of new vertices to be added to form a primitive adjacent to the originating primitive.

Claim 6 (Previously Presented): A method as in claim 1, wherein one of the parameters indicates a number of the vertices of the originating primitive to be used as anchor vertices for each adjacent primitive.

Claim 7 (Previously Presented): A method as in claim 1, wherein the parameters indicate a number of the vertices that are shared between two primitives.

Claim 8 (Original): A method as in claim 6, wherein the parameters indicate a number of vertices in addition to the anchor vertices, needed to define an adjacent primitive.

Claims 9-15 (Cancelled)

Claim 16 (Currently Amended): A method for generating a data stream corresponding to a primitive extension, the primitive extension defining the connectivity and vertices used to specify a collection of connected primitives within a generalized primitive, comprising:

obtaining vertex data for an originating primitive; and
retrieving parameters associated with generating an ordered data stream
including parameterizing the generalized primitive, the [[with]] parameters
including that include a width (w), a step size (s) and an anchor width (a), and
generating an ordered data stream using said parameters;

wherein selecting a first portion of data elements in [[from]] the ordered
data stream, wherein the first portion of data includes vertex data for the
originating primitive of are ordered based on the parameters associated with the
generalized primitive[[; and]]

adding a second portion of data to an end of the ordered data stream,
wherein the second portion of data includes vertex data for vertices within one of
the connected primitives.

Claim 17 (Currently Amended): A method as in claim 16, wherein a [[the]] first portion of the ordered data stream includes at least one anchor vertex, the at least one anchor vertex used to define each primitive within the [[a]] generalized primitive.

Claim 18-19 (Cancelled)

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Claim 20 (Previously Presented): A method as in claim 16, wherein the primitive extension is a strip or a fan.

Claim 21 (Cancelled)

Claim 22 (Currently Amended): A method as in claim 16, wherein the ordered data stream primitive extension is generated by a primitive engine, and further comprising providing the ordered data stream primitive extension to a vertex engine.

Claim 23 (Currently Amended): A method as in claim 16, further comprising providing the ordered data stream primitive extension to a vertex engine.

Claim 24 (Previously Presented): A method as in claim 1, wherein the generalized primitive parameters are provided through an application program interface (API).

Claim 25 (Previously Presented): A method as claim in claim 1, wherein sufficient primitives in the generalized primitive are generated to approximately cover a surface.

Claim 26 (Currently Amended): A method as claimed in claim 1, wherein the primitive extension exterior is output as a data stream comprising the data for each of the vertexes of the primitive extension.

Claim 27-32 (Cancelled)